

## SUMMIT GEOENGINEERING SERVICES

Summit Geoengineering Services (SGS) aims to provide clients with responsive and professional solutions through a range of geotechnical services. The SGS design team maintains diverse experience and technical knowledge in the civil engineering industry with expertise in soils and foundation engineering.

### Geotechnical Consulting Services

- Geotechnical Engineering
- Slope Stability Evaluations & Stabilization Designs
- Geotechnical & Foundation Forensic Investigations
- Geotechnical Instrumentation & Monitoring

### Earth Retention Designs

- Sheeting & Shoring
- Excavation Stabilization Designs
- Retaining Wall Design

### Subsurface Exploration Services

SGS offers subsurface exploration services using a fleet of AMS drill rigs, including an AMS 9580 VTR rubber tracked rig, two AMS 9500 VTR rubber tracked rigs, and a trailer-mounted AMS 9630 Pro-D PowerProbe<sup>®</sup>. The 9500 and 9580 rigs are compatible with our Vertek Seismic Cone Penetration Testing (SCPTu) instrumentation. SGS also has a Kubota KX040-4 excavator for performing test pit explorations. This equipment has a compact yet powerful combination of exploration capabilities that provide quality geotechnical explorations for subsurface profiling and sample collection. A variety of sampling and in-situ testing can be performed in boreholes, including SPT sampling, direct push liners, Shelby tubes, field vane shear tests, and N-rock core.

Exploration methodologies include:

- Seismic Cone Penetration Testing (SCPTu)
- Hollow Stem Augers
- Direct Push Casing
- Rotary Wash
- PVC Groundwater Monitoring Well Installations



### Laboratory Testing

SGS performs soils laboratory tests in-house in accordance with applicable ASTM standards, including:

- Grain Size (w/#200 wash or hydrometer)
- Atterberg Limit
- Moisture Content
- Standard & Modified Maximum Density
- One Dimensional Consolidation
- Unconfined Compressive Strength
- Direct Shear
- Thermal Conductivity by Probe
- pH & Redox of Soil by Meter
- Laboratory Wenner Soil Resistivity
- Tube Report (Unit Weight/Moisture/Torvane)

### Contact Information – Office Phone: 207-588-7579

SGS provides engineering consulting services in Maine, New Hampshire, Massachusetts, and Vermont from our office in Farmingdale, ME. Subsurface explorations are based out of Washington, ME. SGS engineers can be contacted directly by cell phone using contact information provided on our website.